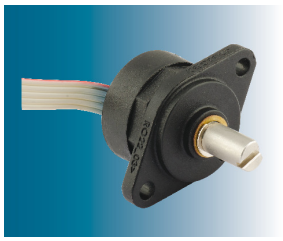
Flange Mount : I²C Rotary Position Sensor

RotaCol® Flange is precision contactless rotary position sensors are available in plastic housing with 22, 25, 28 and 30 mm housing diameter. Flange mounting has shaft diameter of 6mm ø. Mechanical angle is 360° without stop. Flanges has polymer sleeve bearing. Default version has low torque I²C interface has bidirectional Master- slave communication.The I²C address is fixed. It is "0x36" or "0110110". With I²C interface, sensor acts as slave and microcontroller is the master. The SDA signal is the bidirectional data line. The SCL signal is the clock generated by the I²C bus master to synchronize sampling data from SDA. The change in the state of SDA from high to low while SCL is high defines the START condition. A change in the state of SDA from low to high while SCL is high defines the STOP condition.

22C ERCF

Flange Mount : 22mm Ø *Ecoline* I²C Rotary Position Sensor



Interconnection - Flat cable

Link for Datasheet :
www.rotacol.info/22cercf.pdf

- 22mm ø plastic housing
- Hall CMOS technology
- I²C : Master- slave communication
- Shaft diameter : 6mm ø
- Mechanical angle : 360° without stop
- Stainless steel shaft
- polymer bearing
- Shock and vibration proof
- Interconnection :
  4 core flat cable 0.15 mtr long

Type	22C ERCF
Electrical angle	0-360°
Supply voltage	3.3V±10% / 5V DC
Output signal	I²C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer .
Resolution steps	4096 (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	800 rpm
Rotary Life	~ 15 mil. rotations

28C ERCF

Flange Mount : 28mm Ø *Ecoline* I²C Rotary Position Sensor

Interconnection - Flat cable

Link for Datasheet :
www.rotacol.info/28cercf.pdf

- 28mm ø plastic housing
- Hall CMOS technology
- I²C : Master- slave communication
- Shaft diameter : 6mm ø
- Mechanical angle : 360° without stop
- Stainless steel shaft
- polymer bearing
- Shock and vibration proof
- Interconnection :
  4 core flat cable 0.15 mtr long

Type	28C ERCF
Electrical angle	0-360°
Supply voltage	3.3V±10% / 5V DC
Output signal	I²C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer .
Resolution steps	4096 (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	800 rpm
Rotary Life	~ 15 mil. rotations

25C RSF

Flange Mount : 25mm Ø *RS Speed Connect* I²C Rotary Position Sensor

Interconnection -
Mini. push-pull connector

Link for Datasheet :
www.rotacol.info/25crsf.pdf

- 25mm ø plastic housing
- Hall CMOS technology
- I²C : Master- slave communication
- Shaft diameter : 6mm
- Mechanical angle :
  360° without stop (O)
- Stainless steel shaft
- Polymer bearing
- Shock and vibration proof
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) / radial (OCTR)

Type	25C RSF
Electrical angle	0-360°
Supply voltage	3.3V±10% / 5 VDC
Output signal	I²C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer . .
Resolution Steps	4096 (12 bit)
Mech.speed (max.)	3000 rpm
Elec. speed (max.)	800 rpm
Life (rotations)	~ 15 mil. rotatons

30C RSF

Flange Mount : 30mm Ø *RS Speed Connect* I^2C Rotary Position Sensor

Interconnection -
Mini. push-pull connector

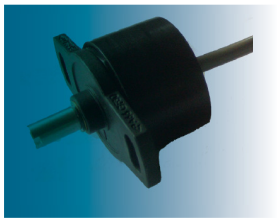
Link for Datasheet :
www.rotacol.info/30crsf.pdf

- 30mm Ø plastic housing
- Replacement of optical encoders
- Hall effect technology
- I^2C : Master- slave communication
- 360° continuous rotation
- Shaft diameter : 6mm
- Stainless steel shaft
- Shock and vibration proof
- Polymer bearing
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) or radial (OCTR)

Type	30C RSF
Electrical angle	0-360°
Supply voltage	3.3V±10% / 5 VDC
Output signal	I^2C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer . .
Resolution Steps	4096 (12 bit)
Mech.speed (max.)	3000 rpm
Elec. speed (max.)	800 rpm
Life (rotations)	~ 15 mil. rotatons

30C LOCF

Flange Mount : 30 mm Ø *LoColine* I^2C Rotary Position Sensor



Interconnection : Round Cable with rubber grommet -OCR

Link for Datasheet :
www.rotacol.info/30clocf.pdf

- 30mm Ø plastic housing
- Low cost
- I^2C : Master- slave communication
- Shaft diameter : 6mm Ø
- Mechanical angle : 360° without stop continuous type
- Polymer bearings
- Default version with medium torque
- Interconnection : 4 core round cable

Type	30C LOCF
Electrical angle	0-360°
Supply voltage	3.3V±10% / 5V DC
Output signal	I^2C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer
Resolution steps	4096 (12 bit)
Mech.speed (max.)	3000 rpm
Elec. speed (max.)	800 rpm
Life (rotations)	~ 15 mil. rotatons